

WHAT IS CLAIMED IS:

1. A method for attempting to establish a connection between a mobile station and a wireless communication system comprising:

transmitting a plurality of reconnection attempt messages, each containing a parameter identifying a reason for a previously failed reconnection attempt and a parameter indicating a number of times that the reason has occurred;

attempting to receive the plurality of reconnection attempt messages and, if the attempt to receive succeeds, storing the parameter identifying the reason for the previously failed reconnection attempt and the parameter indicating the number of times that the reason has occurred.

2. The method of Claim 1, wherein the reason for the previously failed reconnection attempt is one of the group consisting of an access failure, a lack of resources, an acknowledgment failure, a connection denial, and lack of channel assignment.

3. The method of Claim 1, further comprising adapting system access parameters using said stored parameters.

4. The method of Claim 3, further comprising computing an indicator correlated to success rate.

5. The method of Claim 3, wherein the adapted access parameters are common to a subset of a plurality of mobile stations in a system.

6. The method of Claim 3, further comprising computing an indicator inversely correlated to success rate.

7. The method of Claim 6, wherein the indicator is a measure of distribution of number of reconnection attempts required to successfully connect.

8. The method of Claim 1, further comprising controlling resources using said stored parameters.

9. The method of Claim 8, wherein the resources are selected from the group consisting of packet data resources, circuit switched resources, common channels, dedicated channels, forward channels, reverse channels, shared channels, and voice channels.

10. The method of Claim 1, further comprising determining a time to re-attempt connection using said stored parameters.

11. The method of Claim 1, wherein the parameter indicating a number of times that the reason has occurred

identifies a number of consecutive reconnection attempts for the same reason.

12. The method of Claim 1, wherein the parameter indicating a number of times that the reason has occurred identifies a number of reconnection attempts for the same service option selection.

13. The method of Claim 12, wherein the number of reconnection attempts for the same service option selection is for a current connection only.

14. The method of Claim 12, wherein the number of reconnection attempts for the same service option selection is the number of consecutive reconnection attempts for the same service option selection.

15. The method of Claim 1, wherein the parameter indicating a number of times that the reason has occurred identifies a number of silent retries.

16. The method of Claim 15, wherein the number of silent retries is the number of consecutive silent retries.

17. The method of Claim 15, wherein the number of consecutive reconnection silent retries is for the current connection only.

Attorney Docket No.: 09752-149001 / 00-102

18. A mobile station for use in a wireless communication system comprising:

a transceiver which transmits a connection request to the wireless communication system; and

a processor which determines when the connection request fails and further determines a parameter which identifies the reason for the failure and the number of times the reason for the failure has occurred.

19. The mobile station of Claim 18, further comprising memory which stores the parameter data.

20. The mobile station of Claim 18, wherein the connection request includes the parameter data.

21. The mobile station of Claim 20, wherein the transceiver receives instructions from the wireless communication system based on the parameter data.

22. The mobile station of Claim 18, wherein the reason for the previously failed reconnection attempt is one of the group consisting of an access failure, a lack of resources, an acknowledgment failure, a connection denial, and lack of channel assignment.

23. A method of requesting connection to a wireless communication system comprising:

transmitting a first connection request; and

determining when the first connection request fails;

assigning a parameter which identifies the reason for the first connection request failure; and

transmitting a second connection request, wherein the second connection request includes the parameter.

24. The method of Claim 23, further comprising:

determining a number of times the connection requests fail for a particular parameter; and

including the number of connection requests failures in parameter data for a next connection request.

25. The method of Claim 24, further comprising receiving instructions for a next connection request based on the parameter data.

26. The method of Claim 23, wherein the reason for the connection request failure is one of the group consisting of an access failure, a lack of resources, an acknowledgment failure, a connection denial, and lack of channel assignment.

27. The method of Claim 23, further comprising modifying the aggressiveness of the connection request.

28. A base station for use in a wireless communication system comprising:

a transceiver which receives a connection request containing parameter data from the wireless communication system; and

a resource indicator which determines when resources are available, wherein the base station calculates instructions for a next connection request based on the resources available and the parameter data and transmits the instructions to the wireless communication system.

29. The base station of Claim 28, wherein the parameter data identifies a reason for a connection failure and the number of times the reason for the failure has occurred.

30. The mobile station of Claim 29, wherein the reason for the connection failure is one of the group consisting of an access failure, a lack of resources, an acknowledgment failure, a connection denial, and lack of channel assignment.

31. The base station of Claim 28, wherein the instructions include a next connection time.

32. A wireless communication system comprising:

a mobile station which transmits a plurality of reconnection attempt messages, each message containing a parameter identifying a reason for a previously failed reconnection attempt and a parameter indicating a number of times that the reason has occurred;

a base station which attempts to receive the plurality of reconnection attempt messages and, if the attempt to receive succeeds, wherein the base station stores the parameter identifying the reason for the previously failed reconnection attempt and the parameter indicating the number of times that the reason has occurred.

33. The wireless communication system of Claim 32, wherein the reason for the previously failed reconnection attempt is one of the group consisting of an access failure, a lack of resources, an acknowledgment failure, a connection denial, and lack of channel assignment.

34. The wireless communication system of Claim 32, wherein the base station adapts system access parameters using said parameters.

35. The wireless communication system of Claim 32, wherein the base station controls resources using said stored parameters.

36. The wireless communication system of Claim 35, wherein the resources are selected from the group consisting of packet data resources, circuit switched resources, common channels, dedicated channels, forward channels, reverse channels, shared channels, and voice channels.

37. The wireless communication system of Claim 32, wherein the base station determines a time to re-attempt connection using said stored parameters.

38. The wireless communication system of Claim 32, wherein the parameter indicating a number of times that the reason has occurred identifies a number of consecutive reconnection attempts for the same reason.

39. The wireless communication system of Claim 32, wherein the parameter indicating a number of times that the reason has occurred identifies a number of reconnection attempts for the same service option selection.

40. The wireless communication system of Claim 39, wherein the number of reconnection attempts for the same service option selection is for a current connection only.

41. The wireless communication system of Claim 39, wherein the number of reconnection attempts for the same service option selection is the number of consecutive reconnection attempts.

42. The wireless communication system of Claim 32, wherein the parameter indicating a number of times that the reason has occurred identifies a number of silent retries.

43. The wireless communication system of Claim 42, wherein the number of silent retries is the number of consecutive silent retries.